

No.

200400162



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

West Bred, LLC

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (34

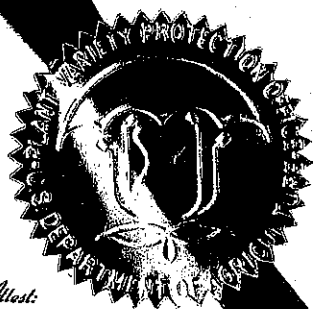
AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, DURUM

'Alzada'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this tenth day of September, in the year two thousand and four.

Attest:



*Benjamin*

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Anderson*

Secretary of Agriculture

**U.S. DEPARTMENT OF AGRICULTURE**  
**AGRICULTURAL MARKETING SERVICE**  
**SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE**

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
*(Instructions and information collection burden statement on reverse)*

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

<b>1. NAME OF OWNER</b> <p align="center">Westbred, LLC</p>		<b>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME</b> <p align="center">YU894-75</p>		<b>3. VARIETY NAME</b> <p align="center">Alzada</p>	
<b>4. ADDRESS</b> <i>(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)</i> <p align="center">8111 Timberline Drive Bozeman, MT 59718</p>		<b>5. TELEPHONE</b> <i>(Include area code)</i> <p align="center">406-587-1218</p>		<div style="border: 1px solid black; padding: 5px;"> <b>FOR OFFICIAL USE ONLY</b>  <hr/> <b>PVPO NUMBER</b>  <p align="center" style="font-size: 1.2em;">200400162</p> <hr/> <b>FILING DATE</b>  <p align="center" style="font-size: 1.2em;">March 30, 2004</p> <hr/> <b>FILING AND EXAMINATION FEES:</b>  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>FEES RECEIVED</b> </div> <div style="width: 50%;"> <b>\$ 3652.00</b>  <b>DATE 3/30/2004</b>  <hr/> <b>CERTIFICATION FEE:</b>  <b>\$ 432.00</b>  <b>DATE 7/26/2004</b> </div> </div> </div>	
<b>6. FAX</b> <i>(Include area code)</i> <p align="center">406-586-8247</p>		<b>9. DATE OF INCORPORATION</b> <p align="center">August 4, 2003</p>			
<b>7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION</b> <i>(corporation, partnership, association, etc.)</i> <p align="center">Westbred, LLC</p>		<b>8. IF INCORPORATED, GIVE STATE OF INCORPORATION</b> <p align="center">Arizona</p>		<b>10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION.</b> <i>(First person listed will receive all papers)</i> <p align="center">Kim C. Shantz Westbred, LLC P.O. Box 6904 Yuma, AZ 85366</p>	
<b>11. TELEPHONE</b> <i>(Include area code)</i> <p align="center">928-782-2749</p>		<b>12. FAX</b> <i>(Include area code)</i> <p align="center">928-782-2751</p>			
<b>14. CROP KIND</b> <i>(Common Name)</i> <p align="center">Durum Wheat</p>		<b>16. FAMILY NAME</b> <i>(Botanical)</i> <p align="center">Poaceae</p>		<b>13. E-MAIL</b> <p align="center">kshantz@westbred.com</p>	
<b>15. GENUS AND SPECIES NAME OF CROP</b> <p align="center">Triticum durum</p>		<b>17. IS THE VARIETY A FIRST GENERATION HYBRID?</b> <p align="center"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>			
<b>19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED</b> <i>(Follow instructions on reverse)</i>					
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety</p> <p>b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness</p> <p>c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety</p> <p>d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety <i>(Optional)</i></p> <p>e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership</p> <p>f. <input checked="" type="checkbox"/> Voucher Sample <i>(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)</i></p> <p>g. <input checked="" type="checkbox"/> Filing and Examination Fee <i>(\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)</i></p> </div> <div style="width: 50%;"> <p>20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? <i>(See Section 83(a) of the Plant Variety Protection Act)</i>  <input type="checkbox"/> YES <i>(If "yes", answer items 21 and 22 below)</i> <input checked="" type="checkbox"/> NO <i>(If "no", go to item 23)</i></p> <p>21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED</p> <p>22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.  <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED  <i>(If additional explanation is necessary, please use the space indicated on the reverse.)</i></p> </div> </div>					
<b>23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <p>IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. <i>(Please use space indicated on reverse.)</i></p>					
<b>24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <p>IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. <i>(Please use space indicated on reverse.)</i></p>					
<b>25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.</b> <p>The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.</p> <p>Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.</p>					
<b>SIGNATURE OF OWNER</b> <p align="center"><i>Kim C. Shantz</i></p>			<b>SIGNATURE OF OWNER</b> <p align="center"><i>D.R. Biggerstaff</i></p>		
<b>NAME</b> <i>(Please print name)</i> <p align="center">Kim C. Shantz</p>			<b>NAME</b> <i>(Please print name)</i> <p align="center">Dan R. Biggerstaff</p>		
<b>CAPACITY OR TITLE</b> <p align="center">Wheat Breeder</p>		<b>DATE</b> <p align="center">3/10/2004</p>		<b>CAPACITY OR TITLE</b> <p align="center">U.P. Research</p>	
<b>DATE</b> <p align="center">3/10/2004</p>		<b>DATE</b> <p align="center">3/25/2004</p>		<b>DATE</b> <p align="center">3/25/2004</p>	

*(See reverse for instructions and information collection burden statement)*

‘Alzada’  
Durum Wheat

19.a. Exhibit A. Origin and Breeding History

‘Alzada’ is a durum wheat that originated from the cross ‘Mohawk’/‘Kofa’ made near Maricopa, AZ, in March 1991. The breeding method used was single-head descent, modified pedigree. The F<sub>1</sub> increase from which ‘Alzada’ originated was grown in the field near Maricopa, AZ in 1992. The F<sub>2</sub> generation was grown near Bozeman, MT, in 1992. Individual spikes were selected and bulked together to grow the F<sub>3</sub> generation near Maricopa, AZ, in 1993. Individual spikes were selected and bulked together to grow the F<sub>4</sub> generation near Bozeman, MT, in 1993. Individual spikes were harvested in September 1993 and planted as spike rows near Maricopa, AZ, in November 1993. The final, single plant selection was made in May 1994 from within one F<sub>5</sub> row, and this selection was increased near Bozeman, MT in the summer of 1994. The resulting plot was designated ‘YU894-75’ and harvested in bulk. ‘Alzada’ was first tested in a replicated yield trial as an F<sub>7</sub> line near Maricopa, AZ, in 1995. Replicated yield testing was done at six locations in the 1997 through 1999 growing seasons. (Maricopa, AZ.; Yuma, AZ.; Yuma Late, AZ.; El Centro, CA.; Corcoran, CA.; and Fire Baugh, CA.) Replicated yield testing was also done at five spring-planted sites in the 1997 through 2003 growing seasons. (Bozeman, MT.; Burley, ID.; Moses Lake, WA.; Conrad, MT.; and Black Foot, ID.)

The selection criteria used during the breeding of Alzada were as follows.

- F1    None, bulk harvest
- F2    Large spikes, semidwarf growth habit, and robust plants
- F3    Large spikes, semidwarf growth habit, and robust plants
- F4    Large spikes, semidwarf growth habit, and robust plants
  
- F5    Visual high yield row, semidwarf growth habit, flowering date, plump seed, % protein, S.D.S. sedimentation, mixogram semolina color, test weight and lodging resistance.

In 1996, 96 spikes were selected from within a seed increase plot near Bozeman, MT, and planted as spike rows near Yuma, AZ, in 1997. Sixty identical and uniform spike rows were harvested, bulked, and the resultant

seed used to plant one acre near Bozeman, MT, in 1997. Seed harvested from this one-acre increase was used to plant a breeder's seed increase of 'Alzada' near Yuma, AZ, in 1998. Additional Breeder's seed was produced in El Centro, CA, in 2002. Foundation and Registered seed was produced in Idaho in 2003. Certified seed of 'Alzada' will be first offered for sale in the spring of 2004.

'Alzada' has been observed for 7 generations of reproduction and seed increase and is stable and uniform. A variant that is black-awned occurs at a frequency of .2% (20 per 10,000). A variant that is 15cm to 30 cm taller occurs at a frequency of .2% (20 per 10,000). The variants are otherwise identical to the variety in all other characteristics.

19.b. Exhibit B. Statement of Distinctness

'Alzada' is most similar to the spring durum variety 'Kofa'. 'Kofa' is planted on approximately 20,000 acres in AZ and California. 'Alzada' can be distinguished from 'Kofa' by the following morphological characteristics:

1. 'Alzada' has blue-green (5BG 4/2 Munsell) leaf color at booting while 'Kofa' has green color. (2.5G 4/4)
2. 'Alzada' has wanting glume shoulders while 'Kofa' has apiculate glume shoulders.

The above comparisons, along with the complete Objective Description (Exhibit C), show 'Alzada' to be a novel variety of durum wheat.

Table 1. Agronomic Characteristics of 'Alzada' compared to check varieties in Westbred, LLC trials. (1997-2003) (Average of 29 location/years)

Entry	Yield	T.W.	Protein	SDS	Semolina	Plt. Hth	Heading	Lodging
	Lbs/A	Lbs/bu	%	Sed.	Color*	Cm	After 7/1	%
'Alzada'	5401	60.8	13.9	72	34.3	81	3	22
'Kronos'	5211	59.6	14.3	69	33.2	75	2	11
'Kofa'	4690	59.8	14.3	73	33.7	78	4	2

\* 'b' value of semolina color measured by the Minolta Colorimeter

Table 2

## MILLING AND PASTA QUALITY-AVERAGE 3 LOCATIONS\*

	ALZADA	KRONOS	KOFA
% Protein	13.6	13.5	13.7
% Ash	1.74	1.73	1.78
gms/1000K	50.6	50.0	48.6
% Semolina Extraction	65.7	65.0	64.8
Specks	40	35	50
Alveograph			
W	212	183	268
P/L	2.0	2.0	1.3
Semolina Color 'b'	25.8	25.4	27.2
Pasta Analysis			
Color Score	10	10	9.5
Cooked Wt (g)	30.5	31.5	29.3
% Cooking Loss	7.5	7.6	6.5
Firmness Score	6.6	6.5	7.9

\*Analysis Performed by the California Wheat Commission

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

Instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 328-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705

EXHIBIT C  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (*Triticum* spp.)

NAME OF APPLICANT(S) Westbred, LLC	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or RD No., City, State, and Zip Code) 8111 Timberline Drive Bozeman, MT 59718	PVPO NUMBER <b>200400162</b>
	VARIETY NAME Alzada
	TEMPORARY OR EXPERIMENTAL DESIGNATION YU894-75

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g.  or ) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: \_\_\_\_\_

Please answer all questions for your variety; lack of response may delay progress of your application.

## 1. KIND:

- 1=Common  
2=Durum  
3=Club  
4=Other (SPECIFY): \_\_\_\_\_

## 2. VERNALIZATION:

- 1=Spring  
2=Winter  
3=Other (SPECIFY): \_\_\_\_\_

## 3. COLEOPTILE ANTHOCYANIN:

- 1 = Absent      2 = Present

## 4. JUVENILE PLANT GROWTH:

- 1 = Prostrate 2 = Semi-erect 3 = Erect

## 5. PLANT COLOR (boot stage):

- 1 = Yellow-Green  
2 = Green  
3 = Blue-Green

## 6. FLAG LEAF (boot stage):

- 1 = Erect  
2 = Recurved
- 1 = Not Twisted  
2 = Twisted
- 1 = Wax Absent  
2 = Wax Present

## 7. EAR EMERGENCE:

- Number of Days (Average)
- Number of Days Earlier Than Kofa \*
- Same as \_\_\_\_\_ \*
- Number of Days Later Than \_\_\_\_\_ \*

\* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial

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## 8. ANTHOR COLOR:

☐ 1 = Yellow  
☐ 2 = Purple

## 9. PLANT HEIGHT (from soil to top of head, excluding awns):

☐ 0 ☐ 8 ☐ 1 cm (Average)

☐ 0 ☐ 6 cm Taller Than Kronos

Same as \_\_\_\_\_

☐ ☐ cm Shorter Than \_\_\_\_\_

## 10. STEM:

## A. ANTHOCYANIN

☐ 1 = Absent  
☐ 2 = Present

## B. WAXY BLOOM

☐ 2 = Absent  
☐ 2 = Present

## C. HAIRINESS

(last internode of rachis)

☐ 2 = Absent  
☐ 2 = Present

## D. INTERNODE

☐ 1 = Hollow    2 = Semi-solid    3 = Solid

☐ Number of Nodes

## E. PEDUNCLE

☐ 1 = Erect    2 = Recurved    3 = Semi-erect

☐ 3 ☐ 3 cm Length

## F. AURICLE

☐ 1 Anthocyanin    1 = Absent    2 = Present

☐ 1 Hair    1 = Absent    2 = Present

## 11. HEAD (at Maturity):

## A. DENSITY

☐ 3 = Lax  
☐ 2 = Middense (Laxidense)  
☐ 3 = Dense

## B. SHAPE

☐ 2 = Tapering  
☐ 2 = Strap  
☐ 3 = Clavate  
☐ 4 = Other (SPECIFY): \_\_\_\_\_

## C. CURVATURE

☐ 1 = Erect  
☐ 2 = Inclined  
☐ 3 = Recurved

## D. AWNEDNESS

☐ 4 = Awnless  
☐ 2 = Apically Awnletted  
☐ 3 = Awnletted  
☐ 4 = Awned



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## 12. GLUMES (at Maturity):

## A. COLOR

- ☐ 1 = White  
☐ 2 = Tan  
☐ 3 = Other (SPECIFY): \_\_\_\_\_

## B. SHOULDER

- ☐ 1 = Wanting      2 = Oblique  
☐ 3 = Rounded      4 = Square  
☐ 5 = Elevated      6 = Apiculate  
☐ 7 = Other (SPECIFY): \_\_\_\_\_

## C. SHOULDER WIDTH

- ☐ 1 = Narrow  
☐ 2 = Medium  
☐ 3 = Wide

## D. BEAK

- ☐ 3 1 = Obtuse  
☐ 2 = Acute  
☐ 3 = Acuminate

## E. BEAK WIDTH

- ☐ 2 1 = Narrow  
☐ 2 = Medium  
☐ 3 = Wide

## F. GLUME LENGTH

- ☐ 3 1 = Short (ca. 7mm)  
☐ 2 = Medium (ca. 8mm)  
☐ 3 = Long (ca. 9mm)

## G. WIDTH

- ☐ 3 1 = Narrow (ca. 3mm)  
☐ 2 = Medium (ca. 3.5mm)  
☐ 3 = Wide (ca. 4mm)

## 13. SEED

## A. SHAPE

- ☐ 3 1 = Ovate  
☐ 2 = Oval  
☐ 3 = Elliptical

## B. CHEEK

- ☐ 1 1 = Rounded  
☐ 2 = Angular

## C. BRUSH

- ☐ 2 1 = Short  
☐ 2 = Medium  
☐ 3 = Long

- ☐ 1 1 = Not Collared  
☐ 2 = Collared

## D. CREASE

- ☐ 1 1 = Width 60% or less of Kernel  
☐ 2 = Width 80% or less of Kernel  
☐ 3 = Width Nearly as Wide as Kernel

- ☐ 1 1 = Depth 20% or less of Kernel  
☐ 2 = Depth 35% or less of Kernel  
☐ 3 = Depth 50% or less of Kernel

## E. COLOR

- ☐ 2 1 = White  
☐ 2 = Amber  
☐ 3 = Red  
☐ 4 = Other (SPECIFY): \_\_\_\_\_

## F. TEXTURE

- ☐ 1 1 = Hard  
☐ 2 = Soft  
☐ 3 = Other (SPECIFY): \_\_\_\_\_

## G. PHENOL REACTION (see instructions):

- ☐ 1 = Ivory      4 = Dark Brown  
☐ 2 = Fawn      5 = Black  
☐ 3 = Light Brown

## H. SEED WEIGHT

- ☐ 5 ☐ 1 g/1000 seed (Whole number only)

## I. GERM SIZE

- ☐ 2 1 = Small  
☐ 2 = Midsize  
☐ 3 = Large

14. Disease : (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant) **20 04 00 162**

## PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

- |   |   |
|---|---|
| <input type="checkbox"/> Stem Rust ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> ) | <input type="checkbox"/> Leaf Rust ( <i>Puccinia recondita</i> f. sp. <i>tritici</i> )                      |
| <input type="checkbox"/> Stripe Rust ( <i>Puccinia striiformis</i> )                  | <input type="checkbox"/> Loose Smut ( <i>Ustilago tritici</i> )   |
| <input type="checkbox"/> Tan Spot ( <i>Pyrenophora tritici-repentis</i> )             | <input type="checkbox"/> Flag Smut ( <i>Urocystis agropyri</i> )  |
| <input type="checkbox"/> Halo Spot ( <i>Selenophoma donacis</i> )                     | <input type="checkbox"/> Common Bunt ( <i>Tilletia tritici</i> or <i>T. laevis</i> )                        |
| <input type="checkbox"/> <i>Septoria nodorum</i> (Glume Blotch)                       | <input type="checkbox"/> Dwarf Bunt ( <i>Tilletia controversa</i> )   |
| <input type="checkbox"/> <i>Septoria avenae</i> (Speckled Leaf Disease)               | <input type="checkbox"/> Karnal Bunt ( <i>Tilletia indica</i> )   |
| <input type="checkbox"/> <i>Septoria tritici</i> (Speckled Leaf Blotch)               | <input type="checkbox"/> Powdery Mildew ( <i>Erysiphe graminis</i> f. sp. <i>tritici</i> )                  |
| <input type="checkbox"/> Scab ( <i>Fusarium</i> spp.)                                 | <input type="checkbox"/> "Snow Molds"   |
| <input type="checkbox"/> "Black Point" (Kernel Smudge)                                | <input type="checkbox"/> Common Root Rot ( <i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.) |
| <input type="checkbox"/> Barley Yellow Dwarf Virus (BYDV)                             | <input type="checkbox"/> Rhizoctonia Root Rot ( <i>Rhizoctonia solani</i> )                                 |
| <input type="checkbox"/> Soilborne Mosaic Virus (SBMV)                                | <input type="checkbox"/> Black Chaff ( <i>Xanthomonas campestris</i> pv. <i>translucens</i> )               |
| <input type="checkbox"/> Wheat Yellow (Spindle Streak) Mosaic Virus                   | <input type="checkbox"/> Bacterial Leaf Blight ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )          |
| <input type="checkbox"/> Wheat Streak Mosaic Virus (WSMV)                             | <input type="checkbox"/> Other (SPECIFY) _____  |
| <input type="checkbox"/> Other (SPECIFY) _____  | <input type="checkbox"/> Other (SPECIFY) _____  |
| <input type="checkbox"/> Other (SPECIFY) _____  | <input type="checkbox"/> Other (SPECIFY) _____  |
| <input type="checkbox"/> Other (SPECIFY) _____  | <input type="checkbox"/> Other (SPECIFY) _____  |

15. INSECT: (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

## PLEASE SPECIFY BIOTYPE (where needed)

- |  |  |
|--|--|
| <input type="checkbox"/> Hessian Fly ( <i>Mayetiola destructor</i> )   | <input type="checkbox"/> Other (SPECIFY) _____ |
| <input type="checkbox"/> Stem Sawfly ( <i>Cephus</i> spp.)             | <input type="checkbox"/> Other (SPECIFY) _____ |
| <input type="checkbox"/> Cereal Leaf Beetle ( <i>Oulema melanopa</i> ) | <input type="checkbox"/> Other (SPECIFY) _____ |
| <input type="checkbox"/> Russian Aphid ( <i>Diuraphis noxia</i> )      | <input type="checkbox"/> Other (SPECIFY) _____ |

15. INSECT: *Continued* (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Intermediate; 4=Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

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☒ 0 Greenbug (*Schizaphis graminum*)

☐ Other (SPECIFY) \_\_\_\_\_

☒ 1 Aphids

☐ Other (SPECIFY) \_\_\_\_\_

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

**EXHIBIT E****STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S) Westbred, LLC	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER YU894-75	3. VARIETY NAME Alzada
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 8111 Timberline Drive Bozeman, MT 59718	5. TELEPHONE (Include area code) 406-587-1218	6. FAX (Include area code) 406-586-8247
7. PVPO NUMBER <b>200400162</b>		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.



YES



NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.



YES



NO

10. Is the applicant the original owner?



YES



NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?



YES



NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?



YES



NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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